OLYMPUS

EBX Socket370 Intel® Celeron/Pentium® III embedded PC

Features

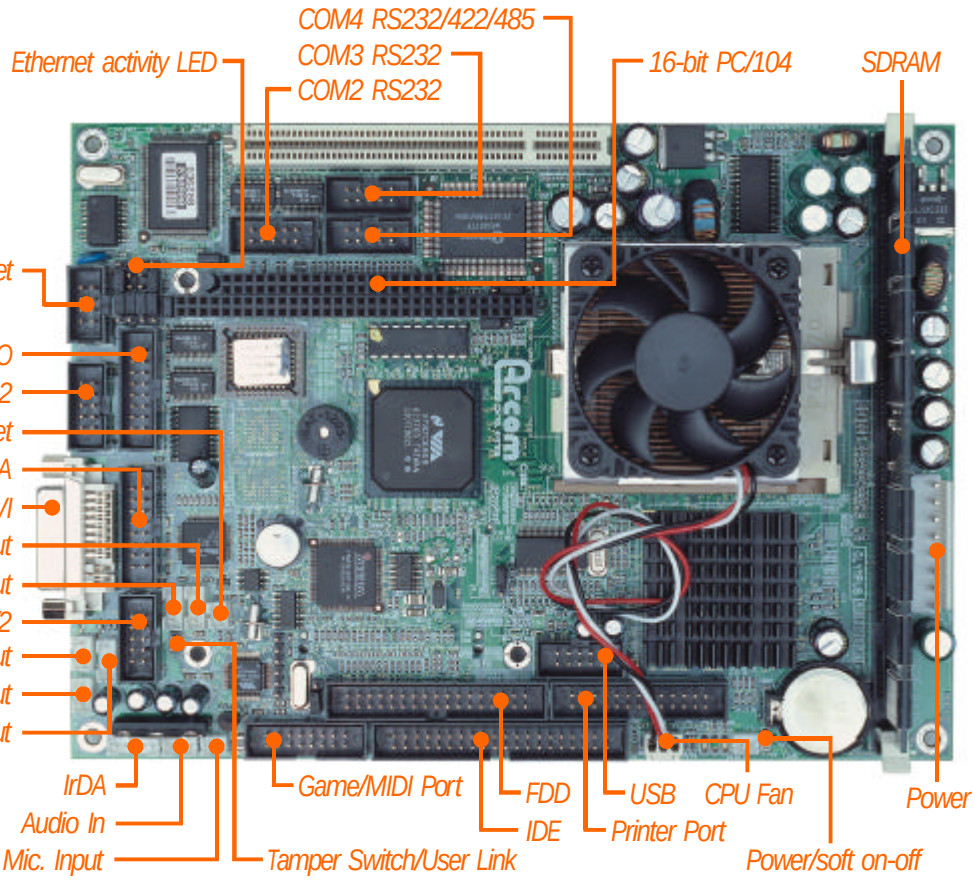
- Intel® Socket370 FC-PGA compatible Coppermine CPUs - Intel® Celeron (66MHz FSB) up to 1GHz Pentium® III (133MHz FSB)
- Up to 512Mbytes PC133 SDRAM (3.3V unbuffered)
- Up to 32Mbytes onboard Intel® StrataFlash
- High performance S3® Savage4™ 3D graphics accelerator
  - Standard analog CRT output
  - Direct DVI (TMDS) output for flat panel displays
  - CRT resolution up to 1920 x 1440 pixels
  - Flat panel resolution up to 1280 x 1024 pixels
  - High quality MPEG-2 based DVD playback
- AC97 compliant audio input/output port with 4W power amplifier
- Realtek 8139 10/100baseT Ethernet controller
- Four 16C550 compatible high speed UARTs
  - 3 x RS-232, 1 x RS-232/422/485
- Type I/II CompactFlash / 5V PCI slot
- IDE (ATA100) and floppy disk port
- RTC, keyboard, mouse, IEE1284 parallel port
- Digital I/O expansion connector
- Two USB ports (v1.1), IrDA interface and game/MIDI port
- Industry standard EBX form factor with PC/104 expansion

For secure applications

- On board 48-bit unique ID code
- Tamper detect input (for both powered and non-powered conditions)
- Soldered on board StrataFlash for embedded data

Description

The OLYMPUS board offers a very high performance single board embedded PC for your network enabled multimedia applications. This board combines support for Socket370 processor options from the 566MHz Intel® Celeron, up to the 1GHz Pentium® III processor along with the high performance S3® Savage4™ 3D graphics accelerator. This industrial single board computer offers the essential features of a high end PC integrated with specialized functions required in secure and reliable applications. A wide range of expansion options are provided via the CompactFlash socket, PC/104 bus connector and standard PCI slot.



Arcom

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Specifications

Temperature (based on 1GHz Pentium III)
- Operating -20°C to +60°C
- Storage -40°C to +70°C

Humidity
- 10% to 90% RH (non-condensing)

Real Time Clock accuracy
- +/- 1min/month

Software
(boards supplied with onboard Flash memory)
- Datalight ROM-DOS operating system
- Datalight FlashFX Flash media management

Power requirements
- +5V +/- 5% 5A (typical)
- +12V +/- 5% 1A (typical)

Battery
- 3.0V Lithium 180mAh (CR2032 Coin Cell)
- Maximum discharge current 2µA

Dimensions
- EBX compatible format (8/16-bit modules)
- 146mm x 203mm (5.75" x 8.00")

Weight
- 320 grams (no heatsink, CPU or memory)

Ordering Information

OLYMPUS-M0-F0	No Flash memory fitted
OLYMPUS-M0-F16	Fitted with 16Mbytes Flash

Contact Arcom for more information and availability of OLYMPUS boards pre-installed with CPU and SDRAM options.

Typical Applications

Any high performance multimedia application or solution designed for a standard desktop PC. The extra security features also makes the OLYMPUS suitable for gaming, ATM and vending machine applications. The tamper detect will report whether the status of a switch input has changed even when the system is switched off. For black box applications, the OLYMPUS can also drive a small 2 line LCD character display.

Associated Products

OLYMPUS Development Kits

Arcom offers rapid application Development Kits for the OLYMPUS embedded PC, supporting Windows CE .NET, Windows XP Embedded, Red Hat Linux and ROM-DOS.

Arcom is a **Gold level** partner in the Windows Embedded Partner program

High-performance multimedia EBX format compact enclosure

- A fully CE compliant enclosure for the OLYMPUS single board computer
- Universal AC input 90 - 132 / 180 - 264 (auto-ranging) with switched IEC input socket
- Operating temperature range 0°C to 55°C
- PS/2 mouse/keyboard sockets
- VGA outlet (D-type 15 way socket) and DVI output
- 4 serial ports (D-type 9 way plugs)
- RJ45 Ethernet (10/100baseT)
- 2 USB channels
- Stereo line input/output, microphone input
- Expansion space for up to two PC/104 I/O cards
- Printer port (D-type 25 way socket)
- Space for 2.5" IDE hard disk

DVI-1 (DVI to LCD Interface)

In order to support smaller LCD displays Arcom has developed a DVI interface board which is supplied as part of the OLYMPUS Development Kit with LCD option. The DVI board decodes the DVI signals and converts them to digital signals supporting TFT LCD displays from 640 x 480 to 1280 x 1024 and up to 24-bits. The board supports either 3.3V or 5V displays configured as 1-bit per pixel. The DVI interface lets you locate a display up to 5m from the OLYMPUS.

Check our website for more details

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